

CLAIMS

1. A method of controlling arthropod, bacterial, fungal, mycoplasma, rickettsia, and viral pests in affected animals or humans which method comprises applying to the affected animal or human a small but effective amount of a tannate complex selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate.

2. A method according to Claim 1 wherein said tannate complex is applied at the rate of about 12 to 55 ounces per 100 gallons of water.

3. A method according to Claim 1 wherein said tannate complex is the tannate complex of picro cupric ammonium formate applied at the rate of about 15 to 30 ounces per 100 gallons of water.

4. A method of disinfecting inanimate surfaces, which method comprises introducing to the inanimate surface a small but effective amount of a tannate complex selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate.

5. A method according to Claim 4 wherein said tannate complex is applied at the rate of about 12 to 55 ounces per 100 gallons of water.

6. A method according to Claim 4 wherein said tannate complex is the tannate complex of picro cupric ammonium formate applied at the rate of about 15 to 30 ounces per 100 gallons of water.

7. A method of utilizing the unique multi-directional dispersion property of tannate complexes selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate to penetrate plant and animal systems and inanimate surfaces, and travelling multidirectionally therein for the purposes of controlling plant pests including flies, mites, beetles, ants, nematodes, aphids, mealy bugs, thrips and slugs; introducing pesticides into plants; introducing nutrients into plants; increasing plant yields; controlling plant maladies caused by insects and nematodes; controlling arthropod, bacterial, fungal, mycoplasma, rickettsia, and viral pests of animals and humans; and disinfecting inanimate surfaces, which method comprises introducing to the plant or animal or human or inanimate surfaces a small but effect amount of tannate complex selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate.

8. A method according to Claim 7 wherein plant pests are controlled by applying said tannate complex to the plant.

9. A method according to Claim 7 wherein said tannate complex is applied at the rate of about 12 to 55 ounces per 100 gallons of water.

10. A method according to Claim 7 wherein said tannate complex is the tannate complex of picro cupric ammonium formate applied at the rate of about 15 to 30 ounces per 100 gallons of water.

11. A method according to Claim 7 wherein said tannate complex is introduced to the plant, animal, human, or inanimate surfaces by spraying, wiping, drenching, or soaking.

12. A method of treating animals and humans for controlling arthropod, bacterial, fungal, mycoplasma, rickettsia, and viral pests of animals and humans, which method comprises introducing to the animals or humans a small but effective amount of tannate complex selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate.

13. The method of Claim 12 wherein the arthropod, bacterial, fungal, mycoplasma, rickettsia and viral pests of animals and humans are controlled by applying said tannate complex to the affected animals or humans.

14. The method of Claim 13 wherein said tannate complex is applied by spraying, wiping, drenching, soaking, or infusing therapeutic quantities of said tannate complex to said affected animals or humans.

15. The method of Claim 12 wherein said tannate complex is the tannate complex of picro cupric ammonium formate applied at the rate of about 15 to 30 ounces per 100 gallons of water.

16. A method of treating plants for the purposes of increasing plant yields or promoting the quality, appearance, growth, and health of plants, which method comprises introducing to the plant a small but effective amount of tannate complex selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate.

17. The method of Claim 16 wherein said tannate complex is applied by spraying, wiping, drenching, soaking, or infusing therapeutic quantities of tannate complex to said plants.

18. The method of Claim 16 wherein said tannate complex is the tannate complex of picro cupric ammonium formate applied at the rate of about 15 to 30 ounces per 100 gallons of water.

19. A method of treating inanimate surfaces for the purpose of disinfecting the inanimate surfaces, which method comprises introducing to the inanimate surfaces a small but effective amount of tannate complex selected from the group consisting of the tannate complex of picro ammonium formate and the tannate complex of picro cupric ammonium formate in aqueous solution combined with a minor amount of a surfactant sufficient to prevent formation of ammonium picrate.

20. A method according to Claim 19 wherein inanimate surfaces are disinfected by applying said tannate complex to the surfaces.

21. A method according to Claim 19 wherein said tannate complex is applied at the rate of about 12 to 55 ounces per 100 gallons of water.

22. A method according to Claim 19 wherein said tannate complex is the tannate complex of picro cupric ammonium formate applied at the rate of about 15 to 30 ounces per 100 gallons of water.

23. A method according to Claim 19 wherein said tannate complex is applied by spraying, wiping, drenching, or soaking said inanimate surfaces.